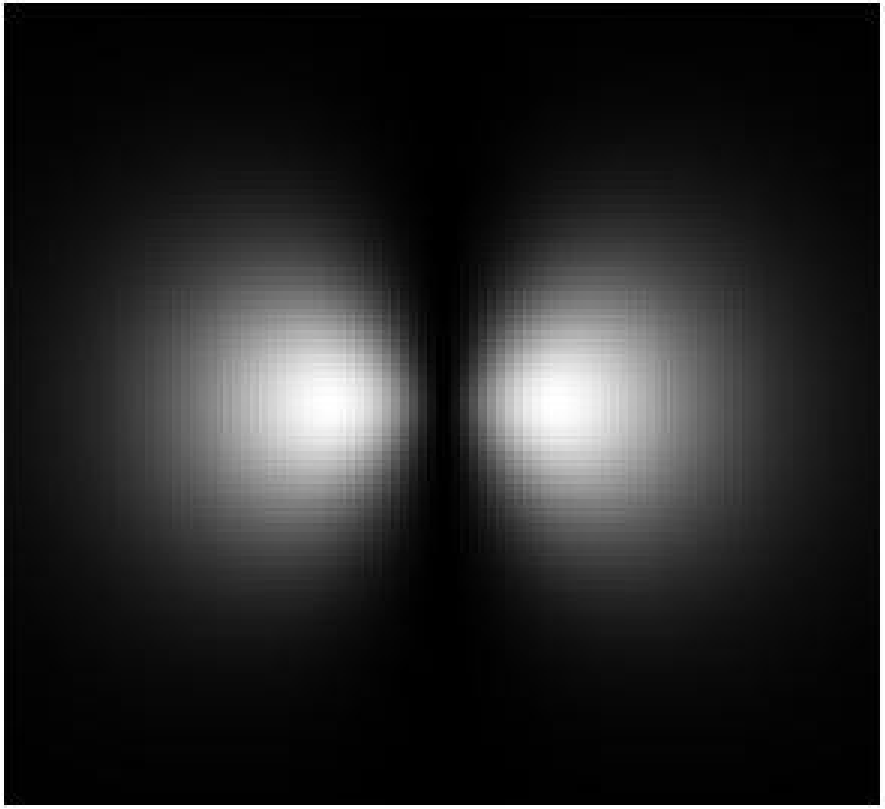

Cross-sectional view of the electron probability density for the n = 2, *l* = 1 hydro
rbital. The number of nodes is n – 1 = 1, the number of spherical nodes is
– *l* – 1 = 0, and the number of planar nodes is *l* = 1. The planar node is
erpendicular to the plane of the screen. For *l* = 1 the orbital is given the name
, so in this case, we have a 2p orbital.